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10/790,489	03/01/2004	Keith Allan Freehauf	MER 03-017	9517
33928 7590 11/13/20008 JUDY JARECKI-BLACK; PH.D., J.D. 3239 SATELLITE BLVD. 3RD FLOOR			EXAMINER	
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			1614	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/790 489 FREEHAUF, KEITH ALLAN Office Action Summary Examiner Art Unit Phyllis G. Spivack 1614 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 27 August 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2 and 4-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1, 2, 4-24 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SZ/UE)
Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
Paper No(s)/Mail Date. ______.

6) Other:

Notice of Informal Patent Application

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Applicant's Request for Continued Examination (RCE) filed August 27, 2008 is acknowledged and accepted. New claim 24 is presented. Accordingly, claims 1, 2 and 4-24 are now under consideration.

Applicant's arguments have been fully considered. Those rejections that are not herein reiterated are withdrawn. The following rejections constitute the only rejections applied to the present claims.

The instant specification claims the benefit of prior-filed U.S. Provisional Application No. 60/530939, filed December 19, 2003. However, support for the <u>pH</u> of the premix of claim 8, i.e., "about 5" and the <u>range</u> recited in claim 13, part a, "about 0.04 to about 5%" were not found in the provisional application. Further, in claim 13, the recited concentration range in part ii, i.e., "about 5 to about 25% (w/w) distilled monoglycerides" and in part c, i.e., "about 0.3 to about 1.5%(w/w) of **additional** anhydrous citric acid," were not found in the provisional application. In part iii of claim 24, the recitation "anhydrous citric acid **in** about 0.3 to about 04% (w/w) propylene glycol" was not found in the provisional application. With respect to the concentration ranges of the premix of new claim 24, these limitations were not found in the provisional application. As such, the earliest effective U.S. filing date of the instant application is determined to be March 1, 2004.

Claims 13 and 24 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contain subject matter which was not described in the specification in such a way as to reasonably convey to

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one skilled in the relevant art that the inventor, at the time the application was filed, had possession of the claimed invention.

Applicant states support for the amendments to claim 13 may be found in the published application in paragraphs [0040], [0041] and [0048], as well in the provisional application on pages 6 and 9.

No such support for the ranges is clearly noted. Paragraph [0041] does not distinguish the original amount of citric acid from the additional amount. Preferred amounts of the stabilizer are in the range of about 0.3% to about 1.5%.

Applicant states support for the subject matter of new claim 24 may be found in paragraphs [0034]-[0050] of the specification as published and on pages 9 and 10 of provisional Application 60/530.939.

A review of each source shows single values for each component of the claimed premix, not the claimed ranges.

See In re Rasmussen, 211 USPQ 323 (CCPA 1981).

Applicant's arguments with respect to claims 1-23 that were rejected under 35 U.S.C. 103 in the last Office Action, have been considered but are moot in view of the new ground of rejection.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1, 2 and 4-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jancys, A.H., U.S. Patent 6,489,303, in view of Katoh et al., U.S. Patent 4,939,166, Chabala et al., U.S. Patent 4,199,569, Sutherland et al., U.S. Patent 4,910,219, Freehauf et al., U.S. Patent 7,001,889, and Carson et al., U.S. Patent 6,548,478.

Jancys teaches anthelmintic compositions comprising avermectins, such as ivermectin, abamectin, doramectin, selemectin and moxidectin, in column 2, lines 37-39, or derivatives thereof, in which stabilizers – which are antioxidants - are added in an amount of about 0.15% to about 5%. See column, lines 62-64. Jancys teaches suitable carriers for veterinary compositions are known in the art. See column 4, lines 27-34. In a preferred embodiment Jancys teaches citric acid to act synergistically with some antioxidants, such as butylated hydroxyanisole, and it may be necessary to include extra citric acid to achieve stability of the composition. The inclusion of additional citric acid is disclosed in column 4, lines 1-10 and 24-25. See the Discussion in column 9. lines 37-51. The simple presence of citric acid does not result in adequate stability. Thus, Jancys recognized and addressed the instability issues of avermectin compositions. His teaching encompasses the desirability of adding additional citric acid to achieve stability.

With respect to the requirements of the present claims for pharmaceutically acceptable surfactants, waxes, antioxidants, carrier vehicles and, optionally, insect growth-regulating compounds in animal feed compositions comprising avermectins:

Chabala teaches feed premixes comprising avermectins utilize

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carriers such as corn meal, citrus meal, fermentation residues, ground oyster shells, wheat shorts, molasses solubles, corn cob meal, bean mill feed, soy grits, dried grains and crushed limestone. See column 8, lines 11-21. Further, Sutherland teaches compositions for veterinary medicine comprising macrolides of formula II may be formulated to include the waxes glyceryl monostearate or coconut oil. See column 5. line 16. Katoh broadly teaches the inclusion of surfactants in a premix for an animal feed comprising macrolide compounds that are structurally analogous to avermectins. See column 10, lines 40-43, and column 14, lines 5-8. Carson teaches the inclusion of anhydrous citric acid in foodstuffs such as feed grain comprising macrolide antibiotics. See the Examples. As required by instant claim 13, the amount should be sufficient to provide a pH of from about 3.0 to about 7.0 in order to minimize the breakdown of the components of the mixture. See column 1, lines 51-61, and column 2. Freehauf teaches the inclusion of avermectins in oral compositions intended for swine or equine administration, wherein pH stabilizers such as maleic acid or citric acid, antioxidants, such as sodium metabisulfite or ascorbic acid, and surfactants, such as hydrogenated castor oil, are further included.

Each of Carson's "preferred formulation" and Examples 1-3, columns 3 and 4, may be properly characterized as a "premix" in that each is a mixture that is preferably maintained as substantially anhydrous prior to forming a suspension, in order to minimize the breakdown of the components of the mixture. According to Carson, the shelf life can be maximized. See lines 1-2, column 3. Thus Carson teaches a premix

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comprising stabilizers that are incorporated for the purpose of extending the shelf life of the veterinarian antibiotic formulation.

Claims 1, 2 and 4-23 employ open (comprising) language. The premix of instant claim 1 and the method of extending the shelf life of a premix are open to the inclusion of any number, and any type, of additional active or inactive agents. Further, a paste qualifies as a premix in that it is an oral composition intended for administration to warm-blooded animals or birds. The anthelmintics are dissolved in a solvent, but then they are dispersed in a carrier matrix which is a paste. The paste is formed by the addition of thickeners and opacifiers. See column 8 lines 13-27. Preferred ranges for pH are about 4 to about 6.5. The buffers contemplated to stabilize the formulations are recited in column 8, line 60, to column 9, line 1. The resultant oral veterinary paste is a soft solid. Freehauf teaches such pastes achieve a better bioavailability of anthelmintic agents than when the active agent is in suspension.

In view of the combined teachings of the prior art, one skilled in the veterinary art would have been motivated to prepare a premix for an animal feed comprising at least one avermectin in combination with a pharmaceutically acceptable surfactant, wax, antioxidant, stabilizer and carrier vehicle with a reasonable expectation of having an extended shelf-life. Such would have been obvious in the absence of evidence to the contrary because the problem of stability of premix compositions comprising avermectins is successfully addressed by Jancys. The inclusion of anhydrous citric acid in animal feed will minimize the breakdown of the components of the mixture and extend the shelf life of the product.

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No claim is allowed.

Applicant's request for an interview is noted.

Applicant may contact the Examiner to establish an interview time and date.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phyllis G. Spivack whose telephone number is 571-272-0585. The examiner can normally be reached on 10:30 AM-7 PM.

If attempts to reach the examiner by telephone are unsuccessful after one business day, the Examiner's supervisor, Ardin Marschel, can be reached on 571-272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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November 8, 2008